



## Product Information Sheet

### C1842 Cellobiose

Synonyms: 4-O-β-D-Glucopyranosyl-D-glucose  
CAS: 528-50-7  
Formula: C<sub>12</sub>H<sub>22</sub>O<sub>11</sub>  
Mol. Weight: 342.30

#### Properties

Form: Powder  
Appearance: White to Off-White  
Solubility: Soluble in Water  
Application: Microbiology, Seed Testing, Phytopathology  
Storage Temp: Room Temperature  
Typical Working Concentration: Varies with application, should be determined by end user.

#### Application Notes

Cellobiose is used in microbiological and phytopathological media as a carbon source for selection of specific microbes. It is used in multiple selection media, including mD5A Medium (Prod # M5516) and CCM medium. The table below is an example of the use of cellobiose as a carbon source in a selection medium.

The semi-selective medium designated as Cefazoline-Cellobiose-Methionine (CCM) medium is intended to select for *Xanthomonas axonopodis* pv. *vignicola* and contains the following components per liter (Wydra et al., 2004):

Product #	Product Name	Amount/L
P705	Dipotassium Phosphate, (K <sub>2</sub> HPO <sub>4</sub> )	1.34 g/L
P846	Monopotassium Phosphate (KH <sub>2</sub> PO <sub>4</sub> )	0.4 g/L
M150	Magnesium Sulfate (Anhydrous) (MgSO <sub>4</sub> )	0.3 g/L
B210	Boric Acid (H <sub>3</sub> BO <sub>3</sub> )	0.2 g/L
A109	Ammonium Chloride	1.0 g/L
<b>C1842</b>	<b>Cellobiose</b>	<b>10.0 g/L</b>
M539	Methionine	1.0 g/L
A111/A296	Agar	14.0 g/L
C1989/C1796	*Cycloheximide Powder/ Solution (100 mg/mL)	0.2 g/L or 2.0 mL/L
N/A	*Cefazoline	0.010 g/L
Adjust to pH 7.2		
*Add aseptically after autoclaving medium and allowing to cool.		

#### References

Wydra K, G Khatri-Chhetri, A Mavridis, R Sikirou, K Rudolph (2004) A diagnostic medium for the semi-selective isolation and enumeration of *Xanthomonas axonopodis* pv. *vignicola*. European Journal of Plant Pathology, 110(10) pp. 991-1001.